

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1. (Currently Amended): A breeding method of lipid producing fungi that belong to genus *Mortierella*,

said method comprising an expression suppressing step of suppressing expression of a ~~specific gene~~ lipid metabolism gene that encodes an enzyme selected from the group consisting of: GLELO, MAELO, Δ 5 fatty acid desaturase, Δ 6 fatty acid desaturase, and Δ 12 fatty acid desaturase in the lipid producing fungi, wherein said expression suppressing step includes an RNAi step of suppressing expression of the ~~specific~~ lipid metabolism gene by an RNAi method or a co-suppression step of suppressing expression of the ~~specific~~ lipid metabolism gene by a co-suppression method.

Claim 2. (Canceled).

Claim 3. (Currently Amended): ~~[[A]]~~ The method as set forth in claim 1, wherein said RNAi step includes a transformation step of introducing a recombinant expression vector into the lipid producing fungi, wherein the recombinant expression vector causes expression of double stranded RNA corresponding to all of or part of a nucleotide sequence of the ~~specific~~ lipid metabolism gene.

Claim 4. (Currently Amended 1): ~~[[A]]~~ The method as set forth in claim 3, wherein said RNAi step further includes an expression vector constructing step of constructing the recombinant expression vector.

Claim 5. (Currently Amended): ~~[[A]]~~ The method as set forth in claim 3, wherein the transformation step is carried out by an electroporation method or a particle delivery method.

Claim 6. (Currently Amended): ~~[[A]]~~ The method as set forth in claim 1, wherein the lipid producing fungi are *Mortierella alpina*.

Claims 7-15. (Canceled).